

## WHAT IS CLAIMED IS:

1. A photic image processing method comprising steps of:
  - (1) processing a photic image unit to generate a photic image signal having a plurality of basic image signals each of which represents a fundamental color;
  - (2) performing a first regulating compensation to each of said basic image signals of said photic image to generate first compensated basic image signals;
  - (3) multiplexing said first compensated basic image signals in a period of time to generate a multiplexed photic image signal having said compensated basic image signals in series in said period of time, wherein said period is equal to a time of processing a photic image unit ; and
  - (4) performing a second regulating compensation for said multiplexed photic image signal to generate a second compensated multiplexed photic image signal.
2. A photic image processing method as claimed in Claim 1, where further includes steps of:
  - (1a) generating a light signal to an object for obtaining a reflective signal; and
  - (1b) executing a photoelectric conversion in response to said reflective signal for obtaining said photic image signal having said plurality of basic image signals.
3. A photic image processing method as claimed in Claim 2, where further includes a step of:
  - (1c) executing a current amplification for said photic image signal in order to enhance an anti-disturbance ability of said photic image signal.

4. A photic image processing method as claimed in Claim 1, wherein said step (2) further includes steps of:
- (2a) eliminating a common-mode voltage of said photic image signal;
  - (2b) regulating a DC voltage offset of said photic image signal;
  - 5 (2c) amplifying and outputting said photic image signal whose said DC voltage offset is regulated; and
  - (2d) performing said first regulating compensation in response to a control signal, in order to equilibrate said basic image signals of said photic image signal.
- 10 5. A photic image processing method as claimed in Claim 4, wherein said basic image signals of said photic image signal are respectively 3 basic signals indicative of red, green and blue fundamental colors.
6. A photic image processing method as claimed in Claim 5, where is executed by a photic image pick-up circuit including a lamp having a
- 15 brightness, a lens and charge coupled device (CCD).
7. A photic image processing method as claimed in Claim 6, wherein said first regulating compensation regulates and equilibrates said photic image signals of red, green and blue fundamental colors and compensates a lamp aging phenomenon of said photic image pick-up
- 20 circuit.
8. A photic image processing method as claimed in Claim 5, wherein said step (3) further includes steps of:
- (3a) equally dividing said period of time into three segments, and multiplexing said 3 basic signals of red, green and blue fundamental
  - 25 colors in said three segments to obtain a multiplexed photic image signal alternately containing therein said 3 basic signals;

(3b) outputting three compensation values at said three segments, each of said three compensation values compensating one of said 3 basic signals of red, green and blue fundamental colors at the corresponding segment in said multiplexed photic image signal; and

5 (3c) compensating said 3 basic signals of red, green and blue fundamental colors in said multiplexed photic image signal by multiplying respectively said three compensation values therefor to accomplish said second regulating compensation.

9. A photic image processing device as claimed in Claim 6, wherein  
10 said second regulating compensation correlates and compensates a non-uniformity among said lamp's brightness, said lens, and said charge coupled device (CCD).

10. A photic image processing method according to claim 8, wherein said method further includes steps of:

15 (5) converting said second compensated multiplexed photic image signal into a digital photic image signal; and

(6) generating said control signal corresponding to said digital photic image signal.

11. A photic image processing method comprising steps of:

20 (1) processing a photic image unit to generate a photic image signal having a plurality of basic image signals;

(2) performing a first regulating compensation to each of said basic  
image signals of said photic image to generate a first compensated basic  
image signals in order to equilibrate said basic image signals of said  
25 photic image signal;

(3) multiplexing said first compensated basic image signals in a period of time to generate a multiplexed photic image signal having said

compensated basic image signals in series in said period of time, wherein said period is equal to a time of processing a photic image unit ; and

- (4) performing a second regulating compensation for said multiplexed photic image signal to generate a second compensated multiplexed photic image signal;

(5) converting said second compensated multiplexed photic image signal into a digital photic image signal; and

(6) generating a control signal;

wherein said step (2) further includes steps of:

- (2a) eliminating a common-mode voltage of said photic image signal;
- (2b) regulating a DC voltage offset of said photic image signal;
- (2c) amplifying and outputting said photic image signal whose said DC voltage offset is regulated; and
- (2d) performing said first regulating compensation in response to a control signal, in order to equilibrate said basic image signals of said photic image signal.

12. A photic image processing method comprising steps of:

- (1) processing a photic image unit to generate a photic image signal having a plurality of basic image signals;
- (2) performing a first regulating compensation to each of said basic image signals of said photic image to generate a first compensated basic image signals in order to equilibrate said basic image signals of said photic image signal;
- (3) multiplexing said first compensated basic image signals in a period of time to generate a multiplexed photic image signal having said compensated basic image signals in series in said period of time, wherein said period is equal to a time of processing a photic image unit ;

(4) performing a second regulating compensation for said multiplexed photic image signal to generate a second compensated multiplexed photic image signal;

wherein said basic image signals of said photic image signal are  
5 respectively 3 basic signals indicative of red, green and blue fundamental colors, where is executed by a photic image pick-up circuit including a lamp having a brightness, a lens and charge coupled device (CCD), and wherein said first regulating compensation regulates and equilibrates said photic image signals of red, green and blue fundamental colors and  
10 compensates a lamp aging phenomenon of said photic image pick-up circuit.

13. A photic image processing method as claimed in Claim 12, wherein said step (3) further includes steps of:

(3a) equally dividing said period of time into three segments, and  
15 multiplexing said 3 basic signals of red, green and blue fundamental colors in said three segments to obtain a multiplexed photic image signal alternately containing therein said 3 basic signals;

(3b) outputting three compensation values at said three segments, each of said three compensation values compensating one of said 3 basic  
20 signals of red, green and blue fundamental colors at the corresponding segment in said multiplexed photic image signal; and

(3c) compensating said 3 basic signals of red, green and blue fundamental colors in said multiplexed photic image signal by multiplying respectively said three compensation values therefor to  
25 accomplish said second regulating compensation.

14. A photic image processing device as claimed in Claim 13, wherein said second regulating compensation correlates and compensates a non-

uniformity among said lamp's brightness, said lens, and said charge coupled device (CCD).